

Ali Celik

List of Publications by Year in descending order

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Version: 2024-02-01

384
papers

13,428
citations

28274

55
h-index

43889

91
g-index

390
all docs

390
docs citations

390
times ranked

8828
citing authors

#	ARTICLE	IF	CITATIONS
1	B $\frac{1}{4}$ y $\frac{1}{4}$ k Hadron \hat{A} arp \hat{A} \pm \hat{A} yt \hat{A} \pm r \hat{A} \pm c \hat{A} \pm s \hat{A} \pm s \hat{A} \pm nda Slepton Sinyalinin K $\frac{1}{4}$ \hat{A} S $\frac{1}{4}$ k K $\frac{1}{4}$ t \hat{A} le Fark \hat{A} \pm Durumunda \hat{A} ncele \hat{A} mesi. T $\frac{1}{4}$ r \hat{A} k D \hat{A} Ve Fen Dergisi, 2021, 10, 290-294.	0,5	0
2	Investigation into the event-activity dependence of \hat{I} (nS) relative production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
3	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	2.9	21
4	Search for electroweak production of a vector-like T quark using fully hadronic final states. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
5	Measurement of properties of $\mathbf{B}_{\mathbf{s}}^0 \rightarrow \hat{A}^+ \hat{A}^-$ decays and search for $\mathbf{B}_{\mathbf{s}}^0 \rightarrow \hat{A}^+ \hat{A}^-$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
6	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P05002-P05002.	1.2	3
7	Study of central exclusive "Equation missing" \leftarrow No EquationSource Format="TEX", only image \rightarrow production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV. European Physical Journal C, 2020, 80, 718.	3.9	7
8	Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 752.	3.9	23
9	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
10	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
11	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	21
12	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	66
13	Search for new neutral Higgs bosons through the $\mathbf{H} \rightarrow \mathbf{Z} \mathbf{A} \mathbf{A} \mathbf{b} \mathbf{b}$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	27
14	Search for direct pair production of supersymmetric partners to the $\hat{\tau}$ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 189.	3.9	22
15	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in \mathbf{PbPb} collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV. European Physical Journal C, 2020, 80, 534.	3.9	14
16	Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic couplings. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
17	Determination of the strong coupling constant $\hat{S}(m_Z)$ from measurements of inclusive W and Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	6
18	Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	7

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19	Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 43.	3.9	11
20	Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	1
21	Evidence for W production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$, $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	10
22	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 75.	3.9	78
23	Searches for physics beyond the standard model with the M_{T2} variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 3.	3.9	70
24	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	3.9	198
25	A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
26	A multi-dimensional search for new heavy resonances decaying to boosted W , WZ , or ZZ boson pairs in the dijet final state at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 237.	3.9	31
27	Measurement of the top quark pair production cross section in dilepton final states containing one τ , lepton in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
28	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8$, $\sqrt{s} = 13$ TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	3.9	5
29	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 370.	3.9	22
30	Measurement of σ_{top}/s normalised multi-differential cross sections in pp collisions at $\sqrt{s}=13$, $\sqrt{s}=13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	3.9	33
31	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s} = 13$, $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	9
32	Measurement of exclusive ρ^0 photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{\text{NN}}}=5.02$, $\sqrt{s_{\text{NN}}}=5.02$ TeV. European Physical Journal C, 2019, 79, 702.	3.9	33
33	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13$, $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 564.	3.9	50
34	Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$, $\sqrt{s}=13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	3.9	40
35	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in pp collisions at $\sqrt{s}=13$, $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 773.	3.9	8
36	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13$, $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 305.	3.9	4

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37	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 421.	3.9	355
38	Search for supersymmetry in events with a photon, jets, \mathcal{E}_T -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 444.	3.9	11
39	Measurement of the $\overline{t}t$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 368.	3.9	68
40	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	12
41	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 280.	3.9	29
42	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 364.	3.9	48
43	Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 90.	3.9	34
44	Study of the underlying event in top quark pair production in pp collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 123.	3.9	11
45	Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 94.	3.9	20
46	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 20.	3.9	18
47	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 893.	3.9	12
48	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
49	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 886.	3.9	16
50	Search for Higgs boson pair production in the $b\bar{b}$ final state in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 300.	4.1	40
51	Measurement of differential cross sections for Z boson pair production in association with jets at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 13-14.	4.7	10
52	Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	4
53	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
54	Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. Physical Review Letters, 2018, 120, 071802.	7.8	40

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55	Observation of Electroweak Production of Same-Sign W^+W^+ Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2018, 120, 092301.	7.8	86
56	Observation of Correlated Azimuthal Anisotropy Fourier Harmonics in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2018, 120, 142302.	7.8	39
57	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s}=7$ TeV. <i>European Physical Journal C</i> , 2018, 78, 242.	3.9	10
58	Measurement of the Splitting Function in pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2018, 120, 142301.	7.8	70
59	Measurement of quarkonium production cross sections in pp collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2018, 120, 142302.	7.8	39
60	Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{NN}}=5.02$ and 8.16 TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	8
61	Observation of the Higgs boson decay to a pair of τ , leptons with the CMS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 779, 283-316.	4.1	125
62	Suppression of Excited τ States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s}=2.76$ TeV. <i>Physical Review Letters</i> , 2018, 120, 142301.	7.8	38
63	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\tau\tau$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	10
64	Search for heavy resonances decaying to a top quark and a bottom quark in the lepton+jets final state in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 779, 283-316.	4.7	36
65	Measurements of Z boson production cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 291.	4.1	16
66	Measurements of the $pp \rightarrow Z\tau\tau$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 165.	4.1	16
67	Measurements of associated Z + charm production in proton-proton collisions at $\sqrt{s}=8$ TeV. <i>European Physical Journal C</i> , 2018, 78, 287.	3.9	27
68	Measurement of the inclusive τ cross section in pp collisions at $\sqrt{s}=5.02$ TeV using final states with at least one charged lepton. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	3.9	52
69	Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s}=8$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	3.9	16
70	Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	5
71		4.7	0
72		4.7	6

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73	Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
74	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	63
75	Measurement of differential cross sections in the kinematic angular variable \bar{t}^* for inclusive Z boson production in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
76	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
77	Measurement of normalized differential $\overline{\text{t}}$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
78	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $s=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
79	Search for ZZ resonances in the $2\hat{a}, 2\hat{1}/2$ final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
80	Search for massive resonances decaying into WZ in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	27
81	Search for massive resonances decaying into WZ in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	15
82	Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
83	Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV/c in PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76$ and 5.02 TeV. Physical Review C, 2018, 98, 044907.	4.7	14
84	Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	9
85	Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
86	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	19
87	Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1.	4.7	43
88	Pseudorapidity and transverse momentum dependence of flow harmonics in PbPb and PbPb collisions. Physical Review C, 2018, 98, 044907.	2.9	8
89	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
90	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two \bar{l}_ν leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	34

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91	Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	26
92	Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
93	Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{\mathrm{NN}}}=5.44$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
94	Precision measurement of the structure of the CMS inner tracking system using nuclear interactions. Journal of Instrumentation, 2018, 13, P10034-P10034.	1.2	11
95	Measurement of the top quark mass with lepton+jets final states using pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 891.	3.9	34
96	Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
97	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
98	Event shape variables measured using multijet final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
99	Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2018, 98, .	4.7	24
100	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 241802.	7.8	50
101	Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2018, 98, .	4.7	17
102	Measurement of jet substructure observables in $t\bar{t}$ events from proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	24
103	Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	23
104	Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter mediators and other new particles. Journal of High Energy Physics, 2018, 2018, 1.	4.7	82
105	Search for $Z\tilde{1}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
106	Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
107	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
108	Search for supersymmetry in events with a \tilde{l} , lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	21

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109	Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV Using Isolated Photon-Tagged Jets. <i>Physical Review Letters</i> , 2018, 121, 242301.	7.8	32
110	Search for the decay of a Higgs boson in the $h \rightarrow \tau^+ \tau^-$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	17
111	Performance of reconstruction and identification of τ leptons decaying to hadrons and $\tau \rightarrow \mu \nu_\tau$ in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2018, 13, P10005-P10005.	1.2	69
112	Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2018, 121, 221802.	7.8	14
113	Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 707.	3.9	46
114	Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2018, 78, 965.	3.9	39
115	Studies of $B \rightarrow K^* \mu^+ \mu^-$ (5840) ⁰ and $B \rightarrow K^* \mu^+ \mu^-$ (5840) ⁰ and $B \rightarrow K^* \mu^+ \mu^-$ (5840) ⁰		

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127	Search for dark matter produced in association with a Higgs boson decaying to $\hat{3}^3$ or $\bar{3}, +\bar{3}, \hat{1}$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
128	Search for additional neutral MSSM Higgs bosons in the $\bar{3}, \bar{3}$, final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	73
129	Search for Pair-Produced Resonances Each Decaying into at Least Four Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 141802.	7.8	4
130	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
131	Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	34
132	Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\bar{u}q\bar{q}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
133	Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV. Journal of Instrumentation, 2018, 13, P05011-P05011.	1.2	241
134	Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	35
135	Search for beyond the standard model Higgs bosons decaying into a $\bar{b}b$ pair in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	21
136	Observation of the $\tilde{t}_1(3P)$ and $\tilde{t}_2(3P)$ and Measurement of their Masses. Physical Review Letters, 2018, 121, 092002.	7.8	19
137	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV. European Physical Journal C, 2018, 78, 701.	3.9	58
138	Measurement of prompt and nonprompt charmonium suppression in $PbPb$ collisions at 5.02 TeV. European Physical Journal C, 2018, 78, 509.	3.9	83
139	Search for lepton flavour violating decays of the Higgs boson to $\hat{1}/4\bar{3},$ and $e\bar{3},$ in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
140	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\bar{3},$ leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
141	Search for associated decay of the Higgs boson to a pair of light pseudoscalars in the final state with two b quarks and two $\bar{3},$ leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 462-488.	4.1	43
142	Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801.	7.8	219
143	Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $\sqrt{s}=13$ TeV. Physical Review D, 2018, 98, ..	4.7	39
144	Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 1.	3.9	17

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145	Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
146	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
147	Search for single production of vector-like quarks decaying to a b quark and a Higgs boson. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
148	Search for a singly produced third-generation scalar leptoquark decaying to a \bar{l} , lepton and a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	15
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155	Search for the pair production of third-generation squarks with two-body decays to a bottom quark, charm quark and a neutralino in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 120, 202301.	4.1	55
156	Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 349-370.	4.1	19
157	Measurement of Prompt Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2018, 120, 202301.	2.9	64
158	Search for pair production of excited top quarks in the lepton + jets final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 349-370.	4.1	8
159	Search for excited quarks of light and heavy flavor in 3-jet final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 390-411.	4.1	7
161	Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks. Physical Review D, 2018, 97, .	4.7	23
162	Evidence for the Higgs boson decay to a bottom quark-antiquark pair. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 501-532.	4.1	63

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164	Measurement of angular parameters from the decay $B_0 \rightarrow \bar{a}_1^+ a_1^- K_S^0$ in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 517-541.	4.1	101
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180	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 140.	3.9	44

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182	Study of jet quenching with isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s} = 2.76$ and $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 14-39.	3.0	10
183	Search for top squarks and dark matter particles in opposite-charge dilepton final states at $\sqrt{s} = 13$ TeV. Physical Review D, 2018, 97, .	4.7	36
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187	Combination of inclusive and differential $\overline{t}t$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	7
188	Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 221801.	7.8	160
189	Search for vectorlike light-flavor quark partners in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2018, 120, 221801.	4.7	10
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192	Search for the Λ_c^+ production. Physical Review Letters, 2018, 120, 231801.	7.8	47
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196	Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 767, 147-170.	4.1	69
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198	Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 95, .	4.7	8

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201	Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2017, 95, .	4.7	9
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204	Search for electroweak production of charginos in final states with two \tilde{l} , leptons in pp collisions at $\sqrt{s} = 8$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	11
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207	Measurement of prompt and nonprompt J/ψ production in pp collisions at $\sqrt{s} = 5.02$ TeV. <i>European Physical Journal C</i> , 2017, 77, 269.	3.9	53
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218	Evidence for collectivity in pp collisions at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 765, 193-220.	4.1	243
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221	Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	17
222	Measurement of inclusive jet cross sections in pp and PbPb collisions at $\sqrt{s} = 2.76$ TeV. <i>Physical Review C</i> , 2017, 96, .	2.9	6
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226	Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2017, 96, .	4.7	12
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236	Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 391-412.	4.1	5
237	Search for heavy gauge $W\tilde{E}^2$ bosons in events with an energetic lepton and large missing transverse momentum at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 278-301.	4.1	31
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241	Search for $t\bar{t}\tilde{A}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
242	Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 306-329.	4.1	14
243	Cross section measurement of t-channel single top quark production in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 306-329.	4.7	50
244	Measurement of differential cross sections for top quark pair production using the lepton+jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 95, 1.	4.7	50
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258	Combination of searches for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 533-558.	4.1	26
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261	Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
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263	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
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266	Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.	3.9	32
267	Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 354.	3.9	23
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273	The Triple GEM Detector Control System for CMS forward muon spectrometer upgrade. Journal of Instrumentation, 2017, 12, P02003-P02003.	1.2	2
274	Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 221802.	7.8	40
275	Measurement of electroweak-induced production of $W^{\pm}Z$ with two jets in pp collisions at $\sqrt{s} = 8$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
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279	Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
280	Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	27
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282	Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 96.	4.7	48
283	Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Search for a heavy composite lepto-flavor quantum number and single EW production of two quarks at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 315-337.	4.1	45
284	Search for top quark pair production in pp collisions at $\sqrt{s} = 13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
285	Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
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293	Measurements of jet charge with dijet events in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
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